

# SONY

## ILCA-77M2GBL

**α77II interchangeable lens camera and grip**



### Key Features

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#### **Never miss a moment with 12fps**

The α77II has up to 12 frames per second at full resolution. Equipped with a 79 point AF sensor and advanced auto focus tracking, technology, you never have to miss a moment. The α77II outperforms even more expensive rivals with continuous auto focus and auto exposure when shooting at 12fps at full 24.3MP resolution and can capture up to 60 frames in a single burst when in JPEG fine setting.

#### **World's Most AF points<sup>1</sup> — 79-point Phase Detection AF System**

The α77II is equipped with a newly developed phase detection auto focus system, featuring wide coverage 79 AF points. Fifteen of the AF points are cross-type and placed in the most-frequently-used central area of the sensor. This helps the α77II achieve accurate focusing even with horizontally striped subjects, which line-type AF points typically find challenging. The new AF system also performs well in low-light conditions—as low as EV -2 (ISO 100), which is similar to a moonlit night under which objects are difficult to see even with the naked eye. The new AF algorithm instantly recognizes and reliably tracks the desired subject. The α77II also realizes impressive focusing accuracy, even when a large-aperture lens is mounted, thanks to the f/2.8 AF point placed horizontally in the center of the AF sensor overlapping another AF point.

<sup>1</sup>Among interchangeable-lens digital cameras equipped with a dedicated phase-detection AF sensor as of May 1, 2014

#### **24.3 Megapixel Stunning Resolution**

The α77II houses a large APS-C sensor with approx. 24.3 effective megapixels for incredible detail and gorgeous enlargements. Its high resolving power adopts the same gapless on-chip lens structure as the α7R and features the latest-generation RGB color filter and other cutting-edge device technologies developed by Sony, the number 1 manufacturer of image sensors. The α77II's image sensor exhibits approximately 20% higher sensitivity and lower noise levels compared to the α77 throughout a wide sensitivity range of ISO 100 to 25,600.

#### **Advanced BIONZ® X image processing**

The α77II is equipped with the same BIONZ® X image processing engine as on the top-of-the-line full-frame models—α7 and α7R. This engine achieves approximately three times the processing speed of previous BIONZ and features all the latest image processing technologies, which are optimized for this model. The result is astonishingly high-speed processing capabilities as well as faithfully reproduced textures and amazing definition.

#### **Clean Low Light Images with Low Noise and Area-Specific Noise Reduction**

The α77II has a wide sensitivity range of ISO 100 to 25,600 for faster shutter speeds and low-light shooting situations. Combined with detail reproduction technology, area-specific noise reduction effectively suppresses noise and realize high-sensitivity images resulting in fine details and less grain from corner to corner.

#### **Instant Sharing via Smartphone with Build-in Wi-Fi® and NFC**

Connectivity with smartphones has been simplified with Wi-Fi® and NFC control for one-touch sharing. Simply tap the camera to another NFC-enabled device like a tablet or smartphone and photos are transferred with just one touch. Users need only touch devices to connect; no complex set-up is required. Moreover, when using Smart Remote Control, the camera's shutter can be conveniently controlled by your smartphone's touchscreen.

#### **Detail reproduction technology; enhances fine details**

Strong outlines a common characteristic of digital images, are minimized as much as possible to achieve finely detailed images with a natural three-dimensional appearance and naturally depicts subjects as seen by human vision. This increases the ability to depict detailed textures and brings photography another step closer to creating totally realistic, high-quality images.

#### **Full HD Movie 1080/60p/60i/24p and Clean Output via HDMI®**



Take full control when you shoot HD movies and enjoy the full expressive potential of Program, Shutter Priority, Aperture Priority or Manual (P/A/S/M) control in HD movie mode.

Capture spectacular HD movies in your choice of super-smooth 60p, standard 60i or cinematic 24p, all at Full HD 1920x1080 resolution. AVCHD™ codec delivers stunning picture quality. MP4 codec offers smaller files for easier upload to the web. You also have the option of capturing uncompressed HD to an optional external recorder for super high bitrate via the clean HDMI® output.

### Professional Rugged, Weather-Resistant Magnesium Alloy Body

The α77II is a high-quality, high-precision shooting tool built for the real world with a rugged magnesium alloy body that combines high strength with light weight. Sealing around the main buttons, dials, ports and doors are weather-resistant with a double-layered structure that enhances sealing effectiveness at all camera body openings including the media compartment and terminal area. The same high-level resistance to dust and moisture is maintained even when the camera is mounted with the 16-50mm F2.8 (SAL1650) zoom lens, VG-C77AM vertical shooting grip or HVL-F60M flash.

### Exceptional EVF - XGA OLED Tru-Finder™

There's never been anything quite like the OLED Tru-Finder™ electronic viewfinder. For size, speed and brightness even after sunset, this is a gem. It begins with 2,359,296 dots for amazing resolution and high contrast ratio for incredible depth and shows 100% frame coverage. OLED reduces motion blur to a bare minimum. You can also see the results of camera adjustments in real time with superb color and detail, including the ability to display the effects of various camera settings, the use of MF Assist and a peaking function for fine-tuning the focus.

### Three-way Tilt and Swivel LCD Screen

The α77II incorporates a large 3" TFT LCD with 1,228,800 dots pixel count for bright high resolution and high contrast display making framing and shooting a breeze —even in harsh lighting situations. Tilt it up or down to frame high and low-angle shots that would otherwise be hit-or-miss. Tilt and swivel over the camera for self-portraits. You can even tilt it up and down when you hold the camera in vertical mode! Finally, the monitor folds flush to the camera with the LCD exposed for shooting or protected for travel.

### Full-Time LiveView® in LCD or EVF

You can use both the LCD monitor and OLED Electronic Viewfinder for composing shots in LiveView. Both provide a what-you-see-is-what-you-get preview of white balance, focus, depth of field, exposure and 100% framing accuracy, plus informative on-screen displays

### Every Lens is Stabilized

The α77II incorporates sensor shift technology called SteadyShot® INSIDE image stabilization. This means every lens you use—from the widest angle to longest telephoto—is corrected for camera shake and reduces blur, resulting in crisp and sharp images.

### Built-in Flash (Guide Number 12)

To help you shoot more effectively, the camera includes a built-in flash (Guide Number 12) that can also trigger a wireless accessory flash (sold separately). The integrated hot shoe enables you to expand your lighting options with a range of accessory flashes (sold separately).

### Long Shutter Life

A highly durable and reliable shutter unit has been proven to endure approximately 150,000 shutter releases. This durability ensures log-lasting shooting performance, including continuous shooting performance that takes into consideration the large number of photos shot by advanced users.

## Specifications

Camera	
Camera Type	Sony A-mount interchangeable lens digital camera
Lens Compatibility	Sony A-mount lens
Imaging Sensor	
Imaging Sensor	Exmor™ APS-C HD CMOS sensor (23.5 X 15.6mm)
Processor	BIONZ® X image processor
Anti Dust	Charge protection coating on image sensor and image sensor shift mechanism
Pixel Gross	Approx. 24.7 megapixels
Effective Picture Resolution	Approx. 24.3 megapixels
Focal Length Conversion Factor	1.5x

Color Filter System	RGB primary color filters
Recording	
Media Type	SD, SDHC and SDXC memory card, Memory Stick PRO Duo™/Pro-HG Duo™ media
Color Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS™ Color
Still Image Mode	JPEG (Standard, Fine, Extra Fine), RAW, RAW+JPEG
Still Image Max Effective Resolution	24.3MP
Still Image Size 16:9	L size: 6000 x 3376 (20M) M size: 4240 x 2400 (10M) S size: 3008 x 1688 (5.1M)
Still Image Size 3:2	L size: 6000 x 4000 (24M) M size: 4240 x 2832 (12M) S size: 3008 x 2000 (6M)
Panorama Still Image Size	Horizontal Wide: 12,416 x 1,856 (23M) Horizontal Std.: 8,192 x 1,856 (15M) Vertical Wide: 2,160 x 5,536 (12M) Vertical Std.: 2,160 x 3,872 (8.4M)
Video Format	AVCHD / MP4 (MPEG-4 AVC (H.264))
Video Mode	AVCHD: PS - 1920 x 1080/60p@28Mbps FX - 1920 x 1080/60i@24Mbps FH - 1920 x 1080/60i@17Mbps FX - 1920 x 1080/24p@24Mbps FH - 1920 x 1080/24p@17Mbps  MP4: HD - 1440 x 1080/ 30p@12Mbps VGA - 640 x 480/ 30p@3Mbps
Video Signal	NTSC color, EIA standards
Audio Format	AVCHD:Dolby Digital (AC-3) 2ch,Dolby Digital Stereo Creator; MP4:MPEG-4 AAC-LC 2ch
Microphone/Speaker	Built-in stereo microphone or ECM-XYST1M / ECM-CG50 (sold separately); Built-in, monaural speaker, Volume settings in 16 steps between 0 and 15
Still Image File Format	JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Viewfinder	
Type	0.5" XGA OLED EVF (Electronic viewfinder) (2,359k dots)
Dioptr Adjustment	-4.0m to +3.0m <sup>-1</sup>
Field of View	100%
Magnification	1.09x (with 50mm lens at infinity, -1m <sup>-1</sup> )
LCD Display	
LCD Type	3.0" TFT LCD (1,228,800 dots)
Angle Adjustment	Tilt angle: Up: 150 degrees; Down: Approx. 180 degrees Rotation angle:180 degrees clockwise and 90 degrees counterclockwise.
Brightness Control	Auto, Manual (5 steps between -2 to +2)
Coverage	100%
Live View	Continuous Live View (LCD/EVF Auto, selectable)
Real-time image adjustment display	Yes(On/Off)
Histogram	Yes (On/off)
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Grid Display	Yes (Rule of thirds, 4x6 Square, Diagonal & 4x6 Square Grids, Off)
Customization	Grid, Histogram display, Digital Level Gauge, Grid Line, Magnified display for playback
Zebra	Yes (On/off)

Focus Control	
Focus System	TTL phase detection AF (CCD line sensors)
Focus Points	79 points (15 points cross type, with center F2.8 sensor)
AF Modes	Single-shot AF(AF-S), Continuous AF(AF-C), Automatic AF(AF-A) selectable, Direct Manual Focus (DMF), Manual Focus
Focus Area	Wide/ Zone/ Center/ Flexible Spot/ Expanded Flexible Spot, Lock-On AF: Wide/ Zone/ Center/ Flexible Spot/ Expanded Flexible Spot)
Focus Sensitivity	EV -2 to 18 (at ISO100 equivalent)
Focus Features	Eye-start AF, Lock-on AF, Eye Focus, Predictive control (AF-A, AF-C), Focus lock, AF On, Eye-start AF
AF Illuminator	Built-into flash, Range: approx. 3.3' to 16.4' (1m-5m)
Exposure System	
Metering	Advanced 1200-zone evaluative metering
Metering Modes	Multi-segment, Center-weighted, Spot
Metering Sensitivity	-2EV to 17EV (at ISO 100 equivalent w/ f/1.4 lens)
Exposure Compensation	+/-5.0 EV (1/3EV, 1/2EV steps selectable)
Exposure Settings	iAUTO, Superior Auto, Programmed AE (P), Aperture priority (A), Shutter priority (S), Manual (M), Memory Recall (MR1/2/3)), Sweep Panorama, Scene Selection, Movie (P/A/S/M), Continuous Advanced Priority (AE)
Scene Mode(s)	Portrait, Landscape, Macro, Sports action, Sunset, Night portrait, Night Scene, Handheld Twilight
Picture Effect(s)	13 modes: Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R, G, B, Y), High Contrast Monochrome, Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Monochrome, Miniature, Watercolor, Illustration
D-Range Optimizer	Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range (Auto Exposure Difference, Exposure Difference Level (1-6 EV, 1.0 EV step))
Auto Exposure Lock	Yes with AE Lock button AE is also locked when focus is locked in multi-segment metering mode. ("AEL w/ shutter"(Auto/On/Off) is supported)
ISO	Stills: ISO 100-25,600 selectable in 1/3 EV steps, Still Auto: ISO 100-25,600 selectable upper and lower limit, Movies: ISO 100-12,800 selectable in 1/3 EV steps, Movie Auto: ISO 100-12,800 selectable upper and lower limit
Noise Reduction	Long Exposure NR: (On/Off, available at shutter speeds longer than 1 second) High ISO NR: (High/Normal/Low/Off selectable)
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait , Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia (Contrast (-3 to +3steps), Saturation(-3 to +3steps), Sharpness(-3 to +3steps))
White Balance Mode	Auto WB, Daylight, Shade, Cloudy, Incandescent, Fluorescent (Warm White, Cool White, Day White, Daylight), Flash, Color Temperature (2500 to 9900K), Color Temp. Filter (G7 to M7, A7 to B7), Custom (1/2/3), Custom Set AWB micro adjustment; G7 to M7 (15-steps), A7 to B7 (15-steps) Bracketing: 3 frames, H/L selectable
Color Temperature	2500 to 9900K & Color Filter (G7 to M7: 15-steps, A7 to B7: 15-steps)
Exposure Bracketing	Bracket: Cont./Bracket: Single, 3/5 frames selectable
Drive System	
Shutter Type	Electronically-controlled, vertical-traverse, focal-plane shutter
Drive Mode	Single Shot, Continuous shooting (Hi or Lo selectable), Self-timer (10 or 2 sec delay selectable), Self-timer (Cont.) (with 10 sec delay 3 or 5 exposures selectable), Bracket: Cont. Bracket: Single, White Balance bracket, DRO bracket
Continuous Shooting Speed	Continuous Priority AE (12fps), Continuous (Hi: up to 8fps, Low: up to 3fps)
Self-timer	2-sec. or 10-sec. delay (3-5exposure selectable)
Shutter Speeds	Still images: 1/8000 to 30 seconds, bulb; Movies: 1/8000 to 1/4 (1/3 step), up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter mode)
Flash Sync Speed	1/250 sec.

Burst Buffer	Continuous Advance Priority AE mode: - Extra fine: 53 images - Fine: 60 images - Standard: 64 images - RAW & JPEG: 25 images - RAW: 26 images
	Continuous shooting - Extra fine: 56 images - Fine: 75 images - Standard: 93 images - RAW & JPEG: 26 images - RAW: 28 images
Flash	
Flash Type	Built-in, Pop-up Auto
Flash Metering System	ADI flash / Pre-flash TTL / Manual flash
Flash Modes	Flash off, Auto flash, Fill-flash, Slow Sync., Rear Sync, Wireless, Hi-speed sync, Red-eye reduction (On/Off)
Flash Compensation	±3.0 EV (switchable between 1/3 and 1/2 EV steps)
Flash Coverage	16mm (focal length printed on lens body)
Recycling Time	Approx. 3 sec.
Guide Number	12 (in meters at ISO100)
Flash Bracketing	1/3, 1/2, 2/3, 1.0, 2.0, 3.0 EV steps, 3/5 frames selectable
Interface	
Memory Card Slot	Dual compatibility slot: SD, SDHC, SDXC memory card and Memory Stick PRO Duo™/Pro-HG Duo™/PRO-HG HX Duo™ media
NFC	Yes (NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
Wi-Fi	Yes (Wi-Fi Compatible, IEEE 802.11b/g/n(2.4GHz band) )
HD Output	HDMI micro connector (Type-D) BRAVIA Sync (link menu) PhotoTV HD 4K Still Image playback via HDMI to compatible 4K TV
USB Port(s)	Multi / Micro USB Terminal - USB2.0 Hi-speed (mass-storage, MTP)
Microphone Input	Yes (3.5 mm Stereo mini jack)
Remote Jack	Yes, wired option
Remote Commander	Yes; via optional RMT-DSLR2
Accessory Shoe	Multi-interface Shoe
DC IN	Yes
HDMI Terminal	HDMI®micro connector (Type-D)
Tripod Mount	Yes - 1/4~20
Weights and Measurements	
Dimensions (Approx.)	Approx. 5~5/8" x 4~1/8" x 3~1/4" (142.6 x 104.2 x 80.9 mm) (W/H/D) excluding protrusions
Weight (Approx.)	Approx. 1 lb 6.8 oz (647g) (excl battery, lens & media) Approx. 1 lb 9.6 oz (725g) (w/ battery & media)
Power	
Battery Type	InfoLITHIUM® NP-FM500H (7.2V)
Number of Still Images	Approx. 410 images with viewfinder, 480 images with LCD monitor (CIPA standard)
Power Consumption (in View Finder Operation)	Still images: approx. .35W(with DT 16-50mm F2.8 SSM lens attached), Movies: approx. 4.1 W(with DT 16-50mm F2.8 SSM lens attached)
Software	
Supplied Software	PMB (Picture Motion Browser) v5.2; Image Data Converter SR v3.2; Image Data Lightbox SR v2.2



Operating System Compatibility	Windows XP SP3 (32-bit), Windows Vista SP2, Windows 7 SP1; Mac OS X (v10.3-10.6). PMB is not compatible with Mac OS. Camera (via USB), Image Data Converter, and Image Data Lightbox software are compatible with Mac OS.
Service and Warranty Information	
Limited Warranty Term	1 Year Parts & Labor
Accessories	
Supplied Accessories	<ul style="list-style-type: none"><li>α77II camera body (ILCA-77M2)</li><li>Vertical Grip (VGC-77AM)</li><li>Battery Charger (BC-VM10A)</li><li>Rechargeable Battery (NP-FM500H)</li><li>Shoulder Strap</li><li>Accessory Shoe Cap</li><li>Body Cap</li><li>Eye Piece Cup</li><li>Micro USB cable</li></ul>

1. Among interchangeable-lens digital cameras equipped with a dedicated phase-detection AF sensor as of May 1, 2014.  
4. Records in 29 minute segments.  
7. Requires HDTV and HDMI® cable sold sep.  
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